

## ABSTRACT OF THE DISCLOSURE

[80] The present invention is directed to a device for DNA analysis. More particularly, the present invention is directed to a cassette which comprises a first chamber suitable for isolating DNA from a biological sample that is suspected of containing a target DNA, one or more second chambers suitable for amplifying any target DNA found in the sample, a chamber suitable for digesting the target DNA with restriction endonucleases, a medium for separation of the digestion fragments, and a channel connecting the digestion chamber to the separation medium and being of suitable size for transferring at least a portion of the contents of the digestion chamber to the separation medium. Typically, the medium for separation of the digestion fragments is an electrophoretic medium. The cassette of the present invention can also be used for the separation and identification of a protein of interest in a biological sample. It is within the scope of the present invention that the cassette also contains one or more internal waste chambers into which used reagents and biological sample can be directed and stored for disposal with the cassette. It is also within the scope of the present invention that the cassette contains a chamber for storage or receipt of a biological control sample.